

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A communication system comprising:
a first device comprising a single modulator that modulates a first digital signal and transmits~~transmitting~~ a modulated signal; and
a second device receiving the modulated signal, the second device including
a first demodulator receiving the modulated signal, ~~producing a first demodulated output and~~ implementing a first demodulation technique configured to demodulate of a non-minimum shift modulation indexed signal, and producing a first demodulated output;[[,]]
a second demodulator in parallel with the first demodulator, the second demodulator receiving the modulated signal, ~~producing a second demodulated output and~~ implementing a second demodulation technique configured to demodulate a minimum shift modulation indexed signal, and producing a second demodulated output and, ~~the second demodulation technique differing from the first demodulation technique, and~~
an error detection module performing bit error detection based on the first demodulated output and the second demodulated output.
2. (Original) The communication system as set forth in claim 1, and wherein the first demodulation technique is differential-frequency shift keying and the second demodulation technique is offset quadrature phase shift keying.
3. (Original) The communication system as set forth in claim 1, and wherein the modulated signal is modulated using a packetized protocol.
4. (Original) The communication system as set forth in claim 3, and wherein the

error detection module performs bit error detection by comparing the first demodulator output with the second demodulator output on a packet-by-packet basis.

5. (Original) The communication system as set forth in claim 1, and wherein the first device implements a frequency shift keying modulation technique.

6. (Cancelled)

7. (Currently Amended) A method of transferring data via a radio frequency signal, the method comprising:

_____ converting data into a first digital signal;

_____ modulating the digital signal using a packetized protocol to generate a modulated signal;

_____ wirelessly transferring the modulated signal;

_____ receiving the modulated signal;

_____ demodulating the modulated signal using a first demodulation technique and a second demodulation technique in parallel, the first demodulation technique producing a first demodulated signal and the second demodulation technique producing a second demodulated signal;~~to produce a demodulated signal; and implementing an error detection algorithm.~~

_____ implementing an error detection algorithm based on the first demodulated signal and the second demodulated signal;

_____ selecting the signal that best represents a corresponding portion of the first digital signal from between the first demodulated signal and the second demodulated signal, based on the error detection algorithm; and

_____ outputting a second digital signal based on the first demodulated signal and the second demodulated, the second digital signal being substantially identical to the first digital signal.

8-9. (Cancelled)

10. (Currently Amended) The method of claim 79, and further comprising comparing the first demodulated signal with the second demodulated signal on a packet-by-packet basis.

Claims 11-33 (Cancelled)

34. (New) The communication system of claim 1 wherein the error detection module outputs a second digital signal chosen from between the first demodulated output and the second demodulated output.

35. (New) The communication system of claim 34 wherein the error detection module chooses between the first demodulated output and the second demodulated output based on which demodulated output best represents a corresponding portion of the first digital signal.

36. (New) The communication system of claim 35 wherein the second digital signal is substantially similar to the first digital signal.

37. (New) The method of claim 7 wherein the first demodulator technique is a non-minimum shift keying demodulation technique and the second demodulation technique is a minimum shift keying demodulation technique.

38. (New) The method of claim 37 wherein the first demodulation technique is differential-frequency shift keying and the second demodulation technique is offset quadrature phase shift keying.